

## **Department of Energy**

Richland Operations Office P.O. Box 550 Richland, Washington 99352

05-AMCP-0009

NOV 5 2004

Mr. Michael A. Wilson, Program Manager Nuclear Waste Program State of Washington Department of Ecology 3100 Port of Benton Boulevard Richland, Washington 99352

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**EDMC** 

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Dear Mr. Wilson:

## 200-UR-1 UNPLANNED RELEASES OPERABLE UNIT RI/FS WORK PLAN

This letter is in response to Ecology's letter from John Price to Larry Romine, same subject, dated August 16, 2004.

The U.S. Department of Energy, Richland Operations Office (RL) has evaluated Ecology's comments on the work plan referenced above. The proposed resolutions to those comments are attached. If you have any questions, please contact me, or your staff may contact Matt McCormick, Office of the Assistant Manager for the Central Plateau, on (509) 373-9971.

Sincerely,

Keith A. Klein

Manager

AMCP:SLB

Attachment

cc w/attach:

D. B. Bartus, EPA

R. G. Bauer, FHI

L. D. Crass, FHI

L. J. Cusack, Ecology

S. Harris, CTUIR

J. S. Hertzel, FHI

R. Jim, YN

T. Martin, HAB

K. Niles, ODOE

R. E. Piippo, FHI

J. B. Price, Ecology

L. Seelatsee, Wanapum

J. P. Shearer, FHI

P. Sobotta, NPT

Administrative Record (200-UR-1)

## RESPONSES TO ECOLOGY COMMENTS ON THE 200-UR-1 RI/FS WORK PLAN, DRAFT A RE-ISSUE (DOE/RL-2004-39)

Comment Number	Page	Comment	Response
1.	Title	Delete "and Engineering Evaluation/Cost Analysis" from	Comment Accepted with Modifications.
		the title.	Title will be changed to 200-UR-1
			Unplanned Releases Waste Group
			Remedial Investigation/Feasibility Study
			Work Plan and Proposed Response
			Alternatives
2.	Page iii	Could probably discuss wind-blown contamination as a	Comment Accepted. Will include
	Executive	causal factor in last sentence. I think one of the largest	statement that redistribution of
	Summary	URs, several square miles from a burial ground, was	radiologically contaminated particulates
	1 <sup>st</sup> paragraph	exacerbated by airborne dispersal.	by the wind and/or animal intrusion has
			occurred at some locations.
3.	Page iii	Change to "The 200-UR-1 OU consists of 148 waste	Comment Accepted.
	1 <sup>st</sup> paragraph	sites" with the addition of West Lake site.	
4.	Page iii	Delete 2 <sup>nd</sup> paragraph and replace with:	Comment Accepted with Modifications
	2 <sup>nd</sup> paragraph	"The U.S. Department of Energy, Richland Operations	(wordsmithing).
		Office and the Washington State Department of Ecology	
		agreed that the nature and extent of environmental	
<sup>1</sup>		contamination at many of the 200-UR-1 waste sites could	
		be characterized using the "Observational Approach."	
		That approach was previously described in the 200 Areas	
		Remedial Investigation/Feasibility Study Implementation	
		Plan – Environmental Restoration Program, DOE/RL-	
		98-28. It is a method of planning, designing, and	
		implementing a remedial action that uses a limited	
		amount of initial field characterization data to generate an	
		understanding of field conditions. Then, additional	
		information is gathered during remedial actions to make	
		"real time" decisions in the field to guide the direction	
		and scope of actions, based on contingency planning	

Comment Number	Page	Comment	Response
		performed before mobilization to the field. Sites identified for the application of the observational approach would be candidates to excavate contaminated soil for disposal at the Environmental Restoration Disposal Facility."	
5.	Page iv 2 <sup>nd</sup> paragraph	Change "further actions" to "response actions".	Comment Accepted.
6.	Page iv 2 <sup>nd</sup> paragraph	Insert the following new paragraph: The U.S. Department of Energy, Richland Operations Office and the Washington State Department of Ecology also agreed that the West Lake site, which was previously in the 200-CW-1 operable unit, did not fit the operable unit definition for 200-CW-1. They agreed that it was actually more like an unplanned release. Accordingly, it has been added to this work plan. It is also a candidate for completion of the RI/FS process along with the B/C Controlled Area.	Comment Accepted
7.	Page iv  3 <sup>rd</sup> paragraph	Delete "unique and"	Comment Accepted.
8.	Page iv 3 <sup>rd</sup> paragraph	In 3rd bullet, change "removal actions" to "response actions".	Comment Accepted with Possible Modifications. Need clarification from Ecology concerning the meaning of "response actions" versus "removal actions" for candidate RTD sites. Removal action is the terminology used in CERCLA.
9.	Page iv 3 <sup>rd</sup> paragraph	In the 4 <sup>th</sup> bullet, change "RI/FS candidate site," to "RI/FS candidate sites (B/C Control Area and West Lake)".	Comment Accepted.
10.	Page v 1 <sup>st</sup> paragraph	Replace first bullet with:  "An evaluation of alternatives and costs for the candidate RTD sites that is the equivalent of an engineering evaluation/cost analysis".	Need to discuss the requested change in wording from "EE/CA" to the "equivalent of an EE/CA" with Ecology. If the information provided in the

Comment	Page	Comment	Response
Number			
			document does not constitute and EE/CA, DOE RL is not clear on the
			regulatory pathway that will be followed for the candidate RTD sites.
11.	Page V	Change "65" sites to include the sites that were not	Comment Accepted.
	2 <sup>nd</sup> paragraph	approved for reclassification, and correct this through the document.	
12.	Page v 2 <sup>nd</sup> paragraph	Change "Completion of the EE/CA prepared for the 65 candidate RTD sites resulted in selecting the remedy of"	See response to comment 10 above. Need additional clarification form
		to "Evaluation of alternatives for the 52 candidate RTD sites resulted in the recommended response of".	Ecology concerning the proposed terminology and the regulatory pathway that will be followed for the candidate RTD sites.
13.	Page v 2 <sup>nd</sup> paragraph	Change "The removal remedy was identified for 52 sites" to "Excavation and disposal was recommended for 52 sites."	Comment Accepted with Modifications.
14.	Page v 2 <sup>nd</sup> paragraph	Delete the last sentence. There is probably no greater uncertainty about removal costs than there is for	The unit costs for surveillance and maintenance are assumed the same as
		maintaining the existing soil cover/institutional controls/and monitored natural attenuation.	the current unit cost for these activities done annually on the sites. Additional
			discussion concerning the cost basis for this alternative is provided in Appendix
			C in Section 2.2. More uncertainty is associated with removal costs because
			the actual removal volumes will be determined using the observational
			approach. Required removal volumes
			drive the costs of many associated actions such as mobilization/
			demobilization, excavation, loading, transportation, disposal costs,
			decontamination, backfill, and

Comment	Page	Comment	Response
Number			
			revegetation. The cost basis for RTD
			sites is discussed in section C3.1.1.
15.	Page v	Delete "The DQO also addressed waste characterization	Comment Accepted with Modifications.
	3 <sup>rd</sup> paragraph	requirements" This sentence does not add anything to the	Text will be changed to indicate the
		paragraph that the first sentence had not already stated. If	DQO process addressed the
		it is implying something different, change sentence to	identification of characterization
		further explain the meaning.	objectives for determination of
			contaminant distribution, verification of
			completeness of a removal response, and
,			the waste characterization requirements
			needed for disposal of removed material.
16.	Page vii	In last full bullet, change "The direct exposure pathway	Comment Accepted with Modifications.
	1st paragraph	has been eliminated at many of these surface release	Text will be changed to state that the
	1 5 1	sites." to "The short-term threat from the direct exposure	short-term threat from the direct
		pathway has been abated at many of these surface release	exposure pathway has been abated at
		sites." Please note that according to WAC 173-340, it	many of these surface release sites.
		isn't eliminated unless there's 15 feet of clean fill. Also,	Placement of a cover soil on the site, in
		the pathway is not eliminated; it's being mitigated by	conjunction with ongoing maintenance
		ongoing maintenance including application of pesticides.	activities, such as application of
		3	pesticide/herbicides, have mitigated
·			direct exposure. These maintenance
			activities eliminate plant uptake and
to provide			disturbance of the soil cover.
17.	Page vii	Change "The most significant of these exceptions is the	Comment Accepted with Modifications.
***	2nd paragraph	BC Controlled Area." to "The largest and most complex	Will be restated as "Two of the largest
	haraBraha	of these exceptions is the BC Controlled Area and the	sites, the BC Controlled Area and the
		West Lake.".	West Lake, are located outside the core
		11.000	zone."
18.	Page vii	Change "The data collected during the BC Controlled	Comment Accepted.
	4th paragraph	Area RI/FS" to "The data collected during the RI/FS for	
		the BC Controlled Area and the West Lake".	

Comment Number	Page	Comment	Response
19.	Page 5-5	Change Section 5.3 title to "Response Action Objectives".	See response to comment 8. Need clarification from Ecology concerning
			the meaning of "response actions"
	·		versus "removal actions" for candidate
			RTD sites. Removal action is the terminology used in CERCLA.
20.	Page 5-5	Change Section 5.4 title to "Identification of Response	See response to comment 8. Need
l .		Action Alternatives".	clarification from Ecology concerning
			the meaning of "response actions"
			versus "removal actions" for candidate
			RTD sites. Section 5.4 is where
			alternatives are identified.
21.	Page 1-1	Add location of BC controlled area and west lake after the	Comment Accepted.
	1 <sup>st</sup> paragraph	discussion of the site locations. Since these are the	
		candidates for RI/FS studies, they should specifically be	
e de la companya de l		noted their location.	
22.	Page 1-2,	Change "unique" to "additional".	Commented Accepted.
	1 <sup>st</sup> paragraph		
23.	Page 1-2	Change "EE/CA" to "equivalent of an EE/CA".	The work plan contains all the elements
	2 <sup>nd</sup> bullet		of an EE/CA. Need clarification from
			Ecology concerning what the regulatory
			path would be for candidate RTD sites if
			an EE/CA has not been completed.
24	Dono 1 2	Charge 147 to 149	C
24.	Page 1-3	Change 147 to 148.	Commented Accepted.
25	1 <sup>st</sup> paragraph	Change (Change (Change) TE/CA22 (Change)	G
25.	Page 1-3	Change "Presents an EE/CA" to "Presents the equivalent of an EE/CA".	See response to comment 23. Text
	4 dullet	of an EE/CA.	changes will be made throughout the
			document when concurrence is
			established concerning the appropriate
			wording.

Comment Number	Page	Comment	Response
26.	Page 1-4	In #3, change "removal" to "response" – each occurrence.	See response to comment 23. Text
	-a		changes will be made throughout the
			document when concurrence is
			established concerning the appropriate wording.
27.	Page 1-4	Delete this section. We can proceed on this pathway w/o	Additional discussion is needed with
	Section 1.2.2	callout in this work plan.	Ecology concerning the regulatory
			pathway (action memorandum or a
			ROD). The regulatory pathway must be
<u> </u>			identified in the work plan.
28.	Page 2-7	Tank farms in 200 West Area also include S, SX, and SY.	Commented Accepted.
	3 <sup>rd</sup> paragraph		
29.	Page 2-13	Change 147 to 148 waste sites (2 sentences in paragraph).	Commented Accepted.
	1 <sup>st</sup> paragraph		
30.	Page 2-13 4 <sup>th</sup> paragraph	Change "candidate RI/FS site" to "candidate RI/FS sites".	Commented Accepted.
31.	Page 2-14	Is "radiolometric" a typographic error? If not, it should	Comment Accepted with Modifications.
		be defined in a parenthetical.	Term should be "radiometric".
32.	Page 2-14	Add characteristics of west lake site as well, or	Commented Accepted.
	Section 2.2.3.2	alternatively add a section 2.2.3.3. Waste Site	
		Characteristics of the West Lake area.	
33.	Page 2-20 and other	The order of the sites listed does not make sense—it does	Commented Accepted.
	site tables	not appear to be numerical, as 200-E-26 is down near the	
		end of the list instead of before 200-E-29, and so on. A	
		listing strategy should be applied to this table and all	
		other tables (including tables 5-6 and 5-7) so that site	
2.4	Do co 2 20	code numbers are easier to look up.	
34.	Page 2-20	Add west lake WIDS site code.	Commented Accepted.
35.	Page 3-3	4 <sup>th</sup> sentence in §3.2.3, please delete sentence "As a result.	Transport mechanisms involved in
		and the environment." and replace with "Although	creation of some of the UPR waste sites
		sampling and long-term monitoring of sites in the 200	have included contaminant distribution

Comment Number	Page	Comment	Response
		Areas has generally focused on larger and more	by wind and animals. Contaminated
7		contaminated waste sites, there is substantial data related	materials include radioactive
•		to many of the small UPRs because of the mode of	particles/specks, feces, urine, and
		contaminant release (often through biological transport)."	tumbleweed parts. Need clarification
			from Ecology concerning inclusion of
			the statement "substantial data".
36.	Page 3-3	The unplanned releases are relatively important in the	RL is not aware of a data source that
	Section 3.2.3	Hanford environment: e.g., contamination is relatively	supports the statement that there is more
		more bio-available if relatively less	bio-monitoring data for these sites
		concentrated/radioactive: but that sense doesn't come	(UPRs) than for any other OU.
		through in this discussion. Also, given there importance,	Bioavailability to contamination at UPR
* .		I suspect that there is relatively more bio-monitoring data	sites that have a soil stabilization cover
		for these sites than for any other OU, but that sense	is limited. Further discussion is needed
		doesn't come through either. Add some text to emphasis	with Ecology concerning data sources
		these points.	before making these statements in the
			work plan.
37.	Page 3-3	Add west lake information to section (specifically 1st	Commented Accepted.
•	Section 3.2.3	paragraph section).	
38.	Page 3-7	The thin stabilization cover is an important part of the	The shallow depth of contamination for
	Section 3.4	physical conceptual model for many of these sites. Also,	the site conceptual models is discussed
	paragraph	the shallow depth of the contamination is an important	on page 3-8. A discussion concerning
		aspect of the "nature" of contamination. Add supporting	the characteristics of the stabilization
		text to that effect.	cover occurs on pages 3-8 and 3-9.
39.	Page 3-7	Change "Point of release: surface or subsurface release."	The bullet list of factors presented in the
		to "Point of release: surface or subsurface release, and	beginning of section 3.4 are the general
	·	thickness of interim stabilization cover compared to 15	physical parameters that are taken into
		foot standard point of compliance in WAC 173-340."	consideration when developing a
			contaminant distribution model.
			Regulatory compliance requirements are
			not one of the physical properties
			considered in development of the
			contaminant distribution models.

Comment	Page	Comment	Response
Number	-		
			Specific attributes of the UPR contaminant distribution models are discussed on pages 3-8 and 3-9.
40.	Page 3-9	Change last bullet from "Approximately one-half of the	This discussion presents the physical
		sites identified for a removal action have been stabilized and covered with clean soil/material reducing the potential for direct exposure." to "Approximately one-half	characteristics of the contaminant distribution models for the UPR sites.  Reference to a regulatory specification
		of the sites identified for a response action have been	concerning a 15 ft thick interval of soil
		stabilized and covered with a thin (compared to 15 ft	in this section is out of context.
		thick) clean soil/material reducing the short-term potential for direct exposure."	
41.	Page 3-10	Add to the bullets another one that says:	The first bullet in Section 3.5.2 identifies
		Plant and animal uptake and transport to other	"Ingestion of contaminated soils,
		biological receptors or humans.	sediments, or biota" as an uptake
			mechanism for humans and biota. Not
			sure of the intended meaning for the
			statement of "transport to other
			biological receptors or humans" other
			than through a secondary release mechanism as shown on Figure 3-5.
			Need additional clarification from
			Ecology concerning the need for
			inclusion of this bullet to the text.
42.	Page 3-10	The leaching pathway to groundwater has been dismissed	Comment Accepted. Additional
	Section 3.5.2	for contamination at depths less than 15 feet. The	discussion will be added describing the
	and page 3-17	regulations in WAC 173-340 require consideration of this	reasons why that the UPR waste sites
	Figure 3-5	pathway, regardless of depth. It is extremely important	would not contribute to ground water
		that if there is justification for dismissing this pathway	contamination. Results of transport
		that it be provided in detail using a quantitative basis.	modeling for the volume of a liquid
		Prepare one or more paragraphs that describe in detail	release that would be required to be able
		why this pathway was dismissed. Also provide appropriate calculations that support dismissing this	to potentially reach ground water will be presented.

Comment Number	Page	Comment	Response
		pathway. Insert the paragraphs and calculations in section 3.5.2. Ecology must approve dismissal of this pathway	
		and cannot do so without complete and accurate justification.	
43.	Page 3-13	In this section insert a table of all contaminants on the	As discussed in Section 3.6, the DQO
	Section 3.6, general	initial list, the facility that generated each contaminant,	assessment process for determining the
		and the reason for elimination of each contaminant,	COCs for 200-UR-1 waste sites was
		instead of the bullets on p. 3-12. In the table define words such as "minor quantities" and "mobility".	completed and presented in WMP-19920 (pending). A general discussion of the
			exclusion rational presented in the DQO
			is shown in the Work Plan. The 200-
			UR-1 DQO incorporated the completed
			COC assessment process and
			elimination rational developed and
A STATE OF THE STA	4		presented in other 200 Area OU DQO
			documents. Meaning of "minor
			quantities" and "mobility" will be
			provided in the text. Please note, a CD
			was provided to Ecology containing the
			current draft of the 200-UR-1 DQO
**			document during Ecology's review of
			the Draft A Work Plan.
44.	Page 3-15, 3-16	The figure is misleading because it does not depict the	Comment Accepted with Modifications.
	Figures 3-3 and 3-4	lateral spreading that occurs at textural change boundaries	Lateral spreading would only occur in
	,	in the subsurface. The spreading must be considered in	layered alluvial deposits with
		the conceptual model. Please revise the figures to indicate	pronounced grain size heterogeneity in
		lateral spreading.	depositional bedding. Sedimentary
			deposits with these characteristics could
			be present at some locations in the
			Hanford FM sands but probably not in
			gravel deposits. The lateral extent of the
the state of			spreading would be related to the

Comment Number	Page	Comment	Response
			volume of a liquid release and the lateral continuity of the layers/strata.  Additional lateral spreading will be shown in Figures 3-3 and 3-4.
45.	Page 3-18	Dermal absorption for semi-volatile organic compounds	This is an incorrect application of the
	Table 3-1	should be evaluated. Dermal absorption fractions are	WAC requirements, as only Modified
		relatively high for these compounds - refer to WAC 173-	Method B includes dermal absorption.
		340 equations 740-4 and 740-5 to determine soil cleanup	The 200-UR-1 Work Plan uses Standard
		levels based on direct contact including dermal contact	Method B calculations for determination
. 1		for semi-volatile organic compounds.	of PRGs. Dermal absorption is not
			included in Standard Method B.
46.	Page 4-1	Replace 1st paragraph with the replacement paragraph	See response to comment 4. Text in
	Section 4.0	provided for the Executive Summary:	both sections of the document will be
			changed for consistency.
		"The U.S. Department of Energy, Richland Operations	
		Office and the Washington State Department of Ecology	
·		agreed that the nature and extent of environmental	
		contamination at many of the 200-UR-1 waste sites could	
· .		be characterized using the "Observational Approach."	
grand the second		That approach was previously described in the 200 Areas	
		Remedial Investigation/Feasibility Study Implementation	
		Plan – Environmental Restoration Program, DOE/RL-	
	;	98-28. It is a method of planning, designing, and	
		implementing a remedial action that uses a limited	
	,	amount of initial field characterization data to generate an	
		understanding of field conditions. Then, additional	
		information is gathered during remedial actions to make	
		"real time" decisions in the field to guide the direction	
10 J		and scope of actions, based on contingency planning	
		performed before mobilization to the field. Sites	The state of the s
		identified for the application of the observational	
		approach would be candidates to excavate contaminated	

Comment Number	Page	Comment	Response
		soil for disposal at the Environmental Restoration Disposal Facility."	•
47.	Page 4-1 Section 4.0	The text states that during the DQO process the 200-UR-1 waste sites were identified for four proposed future actions:  Rejection or no action Reassignment to another OU Use of the observational approach to conduct RTD Completion of an RI/FS Later in the text monitored natural attenuation is listed as the proposed remedy for some of the waste sites. Where did this option come from? Please document the source in the text in the appropriate places.	Comment Accepted. Sites identified as candidates for MESC/IC/MNA were presented in Section 5 as part of the alternative analysis for a removal response. Text will be modified in appropriate places to clarify how the process was conducted to identify the two preferred remedies (RTD and MESC/IC/MNA).
48.	Page 4-1 2nd paragraph	Change "streamlined removal action" to "streamlined response action." Note that the observational approach is a streamlining approach.	See response to Comment 8. Text changes will be made throughout the document when concurrence is established concerning the appropriate terminology.
49.	Page 4-1 3 <sup>rd</sup> paragraph	Change "one 200-UR-1 site (BC Controlled Area)" to "two 200-UR-1 sites (BC Controlled Area and West Lake)".	Comment Accepted.
50.	Page 4-1 Last paragraph	<ul> <li>"The EE/CA was prepared" to "The alternatives evaluation and cost analysis was prepared" and</li> <li>"The EE/CA identifies" to "The evaluation identifies" and</li> <li>"Thus the EE/CA serves as" to "Thus the evaluation, which is the equivalent of an EE/CA, serves as".</li> </ul>	See responses to comments 10 and 23. Text will be modified to be consistent with changes made in other sections of the document concerning the selected terminology. Need additional discussion with Ecology for clarification on these requested changes in terminology and regulatory pathway.
51.	Page 4-1	Delete last 2 sentences on page and replace with "Section 5.0 recommends the preferred response for the candidate	See responses to comments 8, 10, 23, and 50 concerning the requested changes

Comment Number	Page	Comment	Response
		sites."	to terminology and regulatory pathway. Text will be modified to be consistent with changes made in other sections of the document. Need additional discussion with Ecology.
52.	Page 4-2 to 4-5 Section 4.1.1 to 4.1.4	No section is included for criteria for selection sites for MESC/IC/MNA. Add a section to discuss this, separate from the RTD section.	Criteria for selection of sites for MESC/IC/MNA is presented in Section 5.0 as part of the alternatives analysis for candidate RTD sites. Additional text will be added in Section 4.0, explaining the next step in the regulatory process in which an alternative analysis is performed.
53.	Page 4-2 Section 4.1	Provide a reference for the DQO document. It is difficult to review this document without the DQO.	Comment Accepted. Please note that a CD was provided to Ecology containing the current draft of the 200-UR-1 DQO document during the Ecology review of the Draft A Work Plan.
54.	Page 4-2 Section 4.1	The text references "the characterization approach outlined in WMP-19920 (pending)." Ecology has not reviewed or approved of this WMP. Therefore, it is impossible for Ecology to determine if the 'characterization approach' developed in the DQO process was adequately captured in the WMP since Ecology has seen neither document.	Comment Accepted. Please note that a CD was provided to Ecology containing the current draft of the 200-UR-1 DQO document during the Ecology review of the Draft A Work Plan.
55.	Page 4-2 3 <sup>rd</sup> paragraph	Add west lake for completion of RI.	Comment Accepted.
56. 57.	Page 4-3 Page 4-4 Section 4.1.2	Delete last paragraph on page.  The text states that "As appropriate, radiometric surveys and/or samples were collected to verify the completeness of the cleanup. For releases containing radiological constituents, no radiation warning signs or postings were	Comment Accepted.  Comment Accepted. Additional text will be included to discuss in occurrence reports. These indicate that non-radiological constituents were not

Comment Number	Page	Comment	Response
		required following the cleanup because the actions taken resulted in acceptable exposure levelsThe sites should not be considered waste management units because there is not longer evidence of an actual or potential hazardous	constituents of concern. Where a cleanup action was completed, radiological COCs were the predominant contaminant and served as target or
		substance release." The text provides no discussion of non-rad hazardous substances at the waste sites. Please add text to address non-rad hazardous substances.	indicator constituents.
58.	Page 4-5 Section 4.1.3	Insert text addressing how the movement of waste sites from one OU to another will be documented. The text is	Comment Accepted. Text will be modified and include a discussion
		contradictory, in one place it discusses the 34 waste sites "inclusion with another OU for conducting remedial action" and in another place it discusses "designation of the new OU associated with the site" please clarify.	concerning reassignment of the 200-UR-1 waste sites to other operable units.
59.	Page 4-5 Section 4.1.4	Please change the 3rd bullet to read "Radiological surveys and or other non-radiological field-screening characterization techniques could will be used to	Comment Accepted with Modifications. Field screening characterization techniques for organic and inorganic
		determine the level and extent of contamination during the removal action."	constituents will be used, as appropriate, at sites where nonradiological constituents may be present.
60.	Page 4-6 Last paragraph	Add West Lake for completion of an RI/FS.	Comment Accepted.
61.	Page 4-7 Section 4.1.8 and Page B-3 Section B1.4.1 1st sentence of section	These sections state that contamination located in the upper 15 ft of soil is not a threat to groundwater. Delete these sentences and replace with a reference back to Section 3.5.2, which will be amended in accordance with a comment above.	Discussions throughout the Work Plan concerning the assumptions and supporting information used to determine the potential impact to ground water from UPR sites will be modified.
62.	Page 4-7 Section 4.1.8	Include evidence proving the "Chemical and radionuclide contaminants from UPRs in the 200-UR-1OUare not a threat to groundwater."	Discussions throughout the Work Plan concerning the assumptions and supporting information regarding the potential impact to ground water from UPR site will be modified.

Comment	Page	Comment	Response
Number			
63.	Page 4-7	Add West lake site to completion of RI/FS.	Comment Accepted.
	2 <sup>nd</sup> and 5 <sup>th</sup>		
	paragraph		
64.	Page 4-8	Modify text to include the use of VSP to determine the	The sampling design and specifications
	Section 4.1.9	statistically adequate number of verification samples and	for verification sample collection are
		locations. Also include text stating that verification	presented in the SAP (Appendix B).
. 4		samples will comply with requirements specified in WAC	Radiological surveys and
		173-340-740(7).	nonradiological field screening (as
			appropriate) will be used in conjunction
			with the proposed verification sampling.
	•		VSP will be used to select sample
	•		locations, but not for statistical
		NT-1	determination of number of samples.
65.	Page 4-8	Add west lake to discussion. Need to add a	Comment Accepted.
	Sections 4.1.9 and	characterization approach for west lake.	
	4.2 Page 4-9	Modify the 4 <sup>th</sup> and 6 <sup>th</sup> bullets to read:	Comment Accepted with Modifications.
66.	Section 4.2.1	"Sampling and analysis for all potential COCs of	Verification sampling and analysis will
	Section 4.2.1	soils at the soil location with the highest level of	be performed for potential COCs on a
		contamination for waste characterization and	site-specific basis. A list of the
		disposal decisions.	radiological and ronradiological COCs is
		A verification radiological survey and subsequent	provided in the SAP. COCs that will be
		verification of soil sampling and laboratory analysis for	evaluated at each candidate RTD site are
,		all COCs to document the successful removal of	identified using Tables B-15, B-6, and
		contaminated media to levels below PRGs."	B-7.
67.	Page 4-10	The first sentence should include a reference to Figure 2-	Comment Accepted
	Section 4.2.2	4.	
68.	Page 4-10	The text states "In Phase I, the initial site evaluation	Comment Accepted. The next sentence
	Section 4.2.2	characterization objectives are developed and focus on	states, "The project is currently
		determination of current contaminant levels, development	conducting Phase I activities". Text will
		of the preliminary CSM, and determination of initial	be revised to include a discussion
		sampling and radiological survey specifications for a	concerning use of the DQO process and

Comment	Page	Comment	Response
Number	1		
		limited field investigation." This should have been	presentation of the scoping sampling
	·	completed through the DQO process and should be	plan in the SAP (Appendix B).
		documented in the attached SAP. Please revise the	
		document accordingly.	
69.	Page 4-10	Delete "a unique," in last paragraph.	Comment Accepted
70.	Page 4-11	The text references "a Historical Site Assessment	Comment Accepted with Modifications.
··	Section 4.2.2.1	(HAS)." Provide a reference to this document or attach it	The reference will be provided. The
		as an appendix to this work plan.	HSA has been prepared as a separate
			document.
71.	Page 4-11	What are "Derived Concentration Guideline Levels" and	Comment Accepted. Additional
	Section 4.2.2.1	where do they come from. Please provide explanation in	discussion defining "Derived
		the text.	Concentration Guideline Levels" will
			be provided in the text
72.	Page 4-11	The second bullet is "Development of initial scoping	Comment Accepted. Text will be
	Section 4.2.2.1	sampling and radiological survey specifications for a	revised to include a discussion
:		limited field investigation." This should have been	concerning use of the DQO process and
		completed through the DQO process and should be	presentation of the scoping sampling
		documented in the attached SAP. Please revise the	plan in the SAP (Appendix B). Text
		document accordingly.	changes will be made to be consistent
	,		with response to comment 68.
73.	Page 4-8	Add West Lake to Section 4.2, and propose a	Comment Accepted
	Section 4.2	characterization approach.	
74.	Page 4-12	Part 2, 1 <sup>st</sup> bullet: Define the term "key" in the bullet or	Comment Accepted. A more detailed
	Section 4.2.2.2	replace it with a more detailed description of where	description will be provided.
		samples are to be collected.	
75.	Page 4-12	Please define "key areas" and explain how they are	Comment Accepted. A more detailed
	Section 4.2.2.2	identified.	description will be provided. Text
•	Part 2		changes will be consistent with response
			to comment 74.
76.	Page 4-12	Change the second bullet to read "Determine if sufficient	Comment Accepted with Modifications.
e .	Part 3	data is available to estimate maximum and average	Maximum radiation levels and
	Section 4.2.2.2	calculate a 95% UCL for surface radiation COC levels in	radiological COC concentrations will be

Comment	Page	Comment	Response
Number	<i>10</i>		
		each zone."	documented. The true mean (as
			estimated by the 95% UCL on sample
			mean) will also be calculated.
77.	Page 4-13	In the first bullet, include non-rad COCs for verification	An additional evaluation is being
	Section 4.2.2.4	purposes.	conducted to determine whether analysis
			of non-rad COCs within the BC
			Controlled Area is needed for
			verification purposes. The current
			conceptual site model does include
			distribution of non-radiological COCs
			by plants or animals at levels that would
			exceed PRGs. Further discussion is
*	^ .		needed with Ecology concerning
			inclusion of non-rad COCs in the BC
			Controlled Area.
78.	Page 4-13	In several places the text refers to a "treatability test" but	Comment Accepted. Text will be added
	Section 4.2.2.5	it is not clear what the purpose of this text might be.	to briefing explain the objectives of the
		Please add text explaining what the treatability test might	treatability test(s).
		be testing and how it will be used.	
79.	Page 4-14	The text states that the "Survey criteria will meet the	Comment Accepted. Text will be added
	Section 4.2.3.2	agreed-to Derived Concentration Guideline Level set for	to explain how the "agreed-to Derived
		the BC Control Area." Please provide a reference	Concentration Guideline Level" for the
		indicating where the "agreement" is documented.	BC Control Area will be established.
			This is the radiological survey scan
			capability as it corresponds to the
			measured activity in the soil.
80.	Page 4-14	Change the last sentence to read "A list of the screening	Comment Accepted.
	Section 4.2.3.4	techniques and detection capabilities of the equipment,	
		identified for use at UPR sites is presented in the SAP in	
		Appendix B."	
81.	Page 4-15	The text states that "Verification analysis will provide the	See response to comment 42.
	Section 4.2.3.5	data needed to complete site closure documentation."	Consideration of the groundwater

Comment Number	Page	Comment	Response
		Ecology would like to point out that the analytical detection levels used for the verification analysis must be low enough to document compliance with groundwater protection values established in WAC 173-340-747. In addition, the analytical results must be documented for all COPCs.	pathway will be addressed in a consistent manner throughout the document. Analytical requirements for COPCs will also be consistent with the identified exposure pathways.
82.	Page 4-15 Section 4.2.4	In the third sentence there is a double "that" please delete one.	Comment Accepted.
83.	Page 4-17 Figure 4-1	The bottom left box needs to be modified to indicate what happens if a waste site is NOT rejected by the regulators.	Comment Accepted. Figure 4-1 will be modified to include an additional step to address the need for confirmational sampling for certain candidate rejected or no action waste sites.
84.	Page 4-18 Figure 4-2	This figure needs to be modified to include evaluation of non-rad PRGs.	Comment Accepted.
85.	Page 5-1	Change Section 5.1 and 5.1.1 Titles from " Justify Removal Actions" to " Justify Response Actions".	See previous responses to the requested changes in terminology from "Removal" to "Response". Text will be modified to be consistent with the selected terminology used throughout the rest of the document. Our understanding in the development of the Work Plan was to include an EE/CA. This would be consistent with the CERCLA process and provide the basis for issuance of an Action Memorandum. Additional discussion is needed with Ecology concerning the regulatory pathway.
86.	Page 5-4	In 3rd bullet, change "Bioaccumulation" to "Bioaccumulation and bio-magnification"	Need input from Ecology concerning basis for making this requested modification.

Comment Number	Page	Comment	Response
87.	Page 5-4	In last paragraph of Section 5.1.2.3, insert a new sentence	Comment Accepted.
		between the existing first and second sentences:	
		"US EPA guidance does not have a corresponding	
		limitation."	
88.	Page 5-4	The text states that "most of the sites have been stabilized,	Comment Accepted with Modifications.
	Section 5.1.2.3	thereby limiting ecological access." However, Table A-4	Text will be modified. Approximately
		indicates that several of the waste sites have no	half of the waste sites have a
		stabilization cover, or a shallow cover. Please revise text	stabilization cover.
	·	to accurately reflect the potential for ecological exposure.	
89.	Page 5-4	The first bullet should include "inhalation" as an exposure	The Central Plateau Ecological DQO
05.	Section 5.1.2.3	pathway for invertebrates and burrowing mammals.	evaluated pathways and determined that
	Bootion 5.1.2.5	patirway for involved and our owing mainimas.	inhalation was an insignificant pathway
			for invertebrates. Ecosytem protection
			evaluated using WAC 173-340-7490
			through 7494 does not include
			evaluation of inhalation by ecological
			receptors.
90.	Page 5-5	Modify the 1 <sup>st</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> , and 7 <sup>th</sup> bullets to read:	Comment Accepted with Modifications.
<b>90.</b>	Section 5.3	□ Prevent or reduce negative impact mitigate	The last RAO will be reworded to more
	Section 5.5	risk to human health, ecological receptors,	clearly reflect the intent of this
		and natural resources associated with	statement. Remedial actions will be
			conducted in an efficient manner in
		exposure to soil or wastes contaminated	order to minimize the amount of
		above ARARs or risk-based criteria by	
		removing the source or eliminating the	generated waste. Cleanup requirements
		pathway.	will be in accordance with the selected
		☐ Prevent or reduce mitigate occupational	land-use outside the Core Zone. The
		health risks associated with physical,	land-use assumptions presented in the
		chemical, and radiological hazards to	second to last bullet are consistent with
	* **	workers performing removal actions.	the Comprehensive Land Use Plan.
		☐ Minimize the general disruption of	
		ecological and cultural resources caused by	
*		remediation and prevent adverse impacts	

Comment	Page	Comment	Response
Number			
		to cultural resources and threatened or engendered species.	
		☐ Provide conditions suitable for future industrial land use inside the Central	
		Plateau Core Zone boundary and	
		residential unrestricted land use outside the	
		Core Zone.	
		Delete the last RAO. It implies removal and cleanup will	
		be minimized to reduce the amount of waste generated.	
91.	Page 5-6	Change "WAC 173-340 also specifies a" to "WAC	Comment Accepted with Modifications.
		173-340 specifies a standard point of compliance of 15	The text will be reworded to discuss the
		feet and a"	WAC standard point of compliance of 15 feet.
92.	Page 5-6	The text only addresses the decay of radioactive	Comment Accepted.
	Section 5.4.1.2	contaminants. Add text addressing the remaining non-rad	
		COCs which will NOT decay but may experience natural	
		attenuation	
93.	Page 5-7	3 <sup>rd</sup> paragraph in Section 5.4.1.3, change "Removal	Comment Accepted with Modifications.
,		technologies do not" to "The observational approach does	The text will be modified to state that a
		not".	removal response using the observation
			approach does not
94.	Page 5-8 and 5-9	A traditional sampling DQO would consider the	Comment Accepted with Modifications.
		consequences of making a bad decision. For remediation,	Additional text will be added in the 3rd
		a decision to continue MNA and maintain existing soil	paragraph on page 5-9 where a failure of
	and a	cover could result in bio-intrusion and re-release of	institutional controls is discussed.
		contamination. That's consistent with the history of the	Because of the short vertical extent of
		URs, and should be considered in "implementability" and	contamination at the UPR waste sites
		"effectiveness" – please revise the text accordingly.	where an existing soil cover is present,
			re-release of contamination caused by
			bio-intrusion, if it were to occur, would
			result in relatively minor redistribution.

Comment	Page	Comment	Response
Number			
95.	Page 5-8	Add a sentence that states that the risk reduction for this is	A comparative analysis between
	Section 5.5.2.1	low (as compared to the 5.5.3.1 RTD where the removal	Alternative 1, 2 and 3 is presented later
		causes the risk reduction to be high). Also had that there	in section 5.7. Table 5-5 summarizes
		is greater failure possibility of this option as compared to	each alternative based on effectiveness,
		alternative 3.	implementability and cost, and addresses
1			these aspects. The comparative analysis
			statements in this comment do not
			belong in this section. Additional text
			will be included in 5.5.3.1 to direct the
			reader to section 5.7 where the
			comparative analysis of alternatives is
			presented.
96.		The text states that soil covers will be maintained "until	Comment Accepted.
	Section 5.5.2.1	contaminant concentrations beneath the existing soil	. •
		cover reach acceptable levels." If non-rad COCs are	
,		present above PRGs they will not decay, please add text	
		addressing natural attenuation of non-rad COCs.	
97.	, . •	The text states that "Confirmatory sampling would be	Comment Accepted. Organic
	Section 5.5.2.1	used to determine the appropriate timeframe for decay of	constituents are expected to attenuate. If
_		the constituents to acceptable levels." Non-rad COCs will	confirmatory sampling analytical results
		not decay, please add text addressing the natural	show inorganic analytes above PRGs,
00	<b>D</b>	attenuation of non-rad COCs.	the MNA remedy will be reevaluated.
98.		Detail what the risks would be long-term if the controls	Comment Accepted with Modifications.
	Section 5.5.2.1	were to fail, including dispersion of contamination	Additional text will be added to discuss
	3 <sup>rd</sup> paragraph	through animals, wind-blown contamination, etc.	long-term risks. The sites selected for
			this alternative would have a minimal
			potential for long-term risk from
	Dogo 5 0	The maintain of the TIDD of the little in th	disturbance.
99.	Page 5-9	The majority of the UPR sites resulted in contamination	The discussion concerning current
	Section 5.5.2.1	from sites in the Hanford site boundaries, so controls and	controls and access to UPR sites is
	4 <sup>th</sup> paragraph	access are irrelevant in this discussion. Also, annual	appropriate in this section. The process
		surface radiation surveys of specific waste sites do not	allows for assessment and response to

Comment Number	Page	Comment	Response
		detect radiation that may have migrated out of boundaries if the soil cover were to fail. Delete this paragraph completely, or re-word to address these concerns.	maintain control of the site and soil cover conditions.
100.	Page 5-9 Section 5.5.2.1 2 <sup>nd</sup> paragraph	Would sampling alone be enough to determine the possibility of mobility of contaminants through the soil during the period of natural attenuation? Address this concern in this section.	Comment Accepted with Modifications. Sampling and subsequent analysis of results will identify the constituents present. Distribution coefficients for the constituents and site infiltration rates will be considered in assessing vertical migration and mobility. The stabilization soil cover effectively reduces both infiltration associated with precipitation and lateral dispersion
101.	Page 5-10 Section 5.5.3.1	Please add to your discussion that alternative 3 would best address one of the main causes of the UPR's of animal intrusion and wind-blown contamination (that is, removal of the contaminated soil completely would delete this possibility of occurring again, compared to alternative 2)	caused by wind.  Comment Accepted with Modifications.  Additional text will be added to discuss how removal of contaminated soil would eliminate potential for future redistribution caused by animal intrusion or wind erosion.
102.	Section 5.5.2.2	Please clarify what "technical difficulties may arise with equipment failure" and what equipment you are referring to.	Comment Accepted. The sentence will be clarified.
103.	Page 5-9	Under Section 5.5.2.2 change add additional text after the existing paragraph: "Conversely, there is substantial, site-specific experience that demonstrates the difficulty of isolating shallow contamination from plants and animals. Also, the cost of failure is relatively high. The BC Controlled Area is Hanford's largest waste site and it resulted from biological intrusion into shallow waste sites."	The physical characteristics of the site and contaminant source material available at the BC Cribs and Trenches that was dispersal by animals does not match the physical setting or waste characteristics of the UPR sites in this discussion. The UPR sites that are candidates for Alternative 2 have a small contaminant inventory distributed in a

Comment Number	Page	Comment	Response
			thin veneer.
104.	Page 5-9 Section 5.5.2.3	Add to the costs the possibility that if controls were to fail, additional waste sites could be created that would need to be cleaned up in the future.	There is no way to determine the potential number of failures, level of effort or associated costs of this scenario.
105.	Page 5-10	For 1 <sup>st</sup> paragraph Section 5.5.3.1, replace last sentence with "Contaminated soil would be disposed of at the ERDF. Clean excavated soil would be used as backfill, or in some cases the excavation site would simply be recontoured without adding additional backfill."	Comment Accepted.
106.	Page 5-10 Section 5.5.3.1	Modify text to read: "Confirmation sampling will be used to verify that residual contamination levels do not pose unacceptable risks comply with potential ARARs."	Comment Accepted.
107.	Page 5-10 Section 5.5.3.1	Leaving contaminants in place below 4.6 m (15 ft) bgs, at concentrations that exceed the groundwater protection	Comment Accepted. Contaminants are not anticipated to be left in place below
		values specified in WAC 173-340-747, is not compliant with ARARs. The remediation of the 200-UR-1 OU Waste Sites should incorporate the requirements specified	15 ft at UPR waste sites. As indicated in the text, if contamination is identified below 15 ft during removal, additional
		in WAC 173-340-350(9), WAC 173-340-360(2), and WAC 173-340-370(2).	measures would be required. Inclusion of PRGs for the groundwater pathway, and potentially other remedial
			alternatives would need to be considered in consultation with Ecology. Text will be added to clarify this point.
108.	Page 5-11 1 <sup>st</sup> paragraph	Re-consider that movement of waste to ERDF would result in a "minor" reduction in mobility, given the importance of animal & plant intrusion as secondary release mechanisms for the URs. Revise your text accordingly.	Comment Accepted with Modifications. Text will be revised and the word "minor" will be removed.
109.	Page 5-11 5 <sup>th</sup> paragraph	Other than BC Controlled Area, which sites are "larger, more complicated" and could require years to remediate?	Text will be added to specify that the as a group, the numerous railroad waste sites may require more time to remediate

Comment	Page	Comment	Response
Number			
			than other UPR sites because of logistics associated with removal activities, waste handling, and disposition of multiple waste streams.
110.	Page 5-12	Delete 2 <sup>nd</sup> paragraph. It doesn't apply because "this condition is not expected in the 200-UR-1 waste sites."	Comment Accepted.
111.	Page 5-13 Section 5.6	Please revise the text to read: "For some sites, final cleanup requirements activities may be limited minimal, with removal costs reduced"	Comment Accepted.
112.	Page 5-14 Section 5.8	Provide documentation supporting the statement "The UPR sites are not a threat to groundwater and mainly consist of surface radioactive contamination"	Comment Accepted. Additional text will provided here and in other parts of the document to support the statement that the UPR sites are not a threat to groundwater.
113.	Page 5-14 Section 5.8	Is the statement "Generally placement of a soil stabilization cover was followed a decontamination or cleanup action" correct, or were the soil stabilization covers preceded by decontamination or cleanup actions?	This sentence will be revised to restate its intended meaning.
114.	Page 5-27 Table 5-6	Include sites that were not approved for reclassification. For sites where ecology is just requesting "confirmatory sampling", ecology requests creating a new category of just "samples" versus classifying them as RTD or MESC/IC/MNA.	Comment Accepted.
115.	Page 5-27 Table 5-6	Why does RTD have an asterisk following it? The asterisk is not included in footnotes. Delete if not used to signify something.	The asterisk will be replaced and an "a" inserted. The footnote for "a" can be found at the bottom of table 5-6 on page 5-28
116.	Page 5-27 Table 5-6	2 waste sites are listed as 220-E-110 and 220-E-115, correct to 200.	Comment Accepted.
117.	Page 5-27 Table 5-6	Site UPR-200-W-166 is listed for both preferred remedies. Therefore, instead of 52 waste sites for RTD (listed in introduction pg. V) there are 53 listed in table.	Comment Accepted with Modifications. Both remedies are identified for this site. RTD is the preferred remedy for

Comment Number	Page	Comment	Response
		If it is because both alternatives are identified, then treat all sites where both alternatives are identified as the same, and make note in the table.	removal of any residual contamination on the portion of the site that was scraped. MESC/IC/MNA is the
			preferred remedy for the portion of the site consisting of the scraped soil that is now under a soil stabilization cover.
			The table will be revised to clarify this. Accounting for two remedies at one site may lead to some confusion in summary
118.	Page 5-32	200-W-106 facility area is labeled 200-W Pond, but it	statements concerning the number of remedies versus the number of sites.  Comment Accepted. Table will be
110.	Table 5-7	appears from your maps and description to be in T-farm zone.	corrected to indicate the facility area is T-Farm.
119.	Table 5-7 and Appendix A tables	"Facility area" column—should this be called this, as your maps have it referred to as closure zones? If they are "closure zones" change the name of the column to match, or change map label.	Comment Accepted. Callouts and labels will be made consistent.
120.	Table 5-7	For sites that are MESC/IC/MNA, more clarification is needed as to why that approach is being taken versus RTD. Add specific justifications for each site identified	Comment Accepted. Additional text will be added in the column for justification.
121.	Table 5-7	Several waste sties have the preferred remedial alternative as both MESC/IC/MNA and RTD (including UPR-200-W-116 and UPR-200-W-166). The clarification as to why these are checked for both is not sufficient to	Comment Accepted. Additional text will be added. See response to comment 117.
		understand—add additional explanations for these unusual sites.	
122.	Page A-1 Table A-1	Add West lake area to listing of the 200-UR-1 Operable Unit Waste Sites.	Comment Accepted.
123.	Page 6-2 Section 6.1.1	Revise the text to read: "ACTION MEMORANDUM (or in other terms, an interim action ROD) will be	Text will be edited to be consistent with the changes made in other areas of the

Comment Number	Page	Comment	Response
		issued"	document where the regulatory pathway
			and decision documents that will be
			prepared for the 200-UR-1 waste sites
			are discussed. Additional discussion is
*			needed between Ecology and DOE RL
	·		to clarify the regulatory pathway(s) for
			this OU.
124.	Page 6-2	The paragraph that discusses CERCLA closure options	Comment Accepted.
	Section 6.1.2	does not address how these cleanup standards will be used	
		in the 200-UR-1 OU. Please add a detailed explanation of	
		how Method B and Method C cleanup standards will be	
		used in each media and the regulatory path for each.	
		Discuss how clean closure will be used at the 200-UR-1	
		OU waste sites.	
125.	Page 6-3	Revise the text to read: "Public involvement, including	Comment Accepted.
	Section 6.1.2	public notices and an opportunity to comment, will be	
		enhances, as necessary, to satisfy CERCLA requirements.	
		The public also will be able to review and comment on	
		the FS and any proposed draft conditions that will be	
		contained"	
126.	Page 6-4	Add the following bullet:	Comment Accepted with Modifications.
	Section 6.2.2	Soil sampling and analysis for non-rad COCs.	Text will be modified to clarify that soil
			sampling and radiological surveys will
			be performed as part of all remedy
			verification field activities. Analytical
			requirements are associated with the
			potential COCs groups (radiological
ar e e e e			only or radiological and nonradiological)
			that have been identified for each site
v. (*)	e e e e e e e e e e e e e e e e e e e		that is a candidate for sampling.

Comment Number	Page	Comment	Response
127.	Page 6-4	Revise the text to read: "Hanford Environmental	Comment Accepted.
	Section 6.2.2.2	Information System numbers, an inventory of	· · · · · · · · · · · · · · · · · · ·
		investigation-derived waste containers, available waste	
		designation information for radiological and non-rad	
		COCs, and any chemical field-screening results."	
128.	Page 6-4	Please elaborate on the statements:	Comment Accepted. Additional text
	Section 6.2.3	☐ "During development of WMP-19920 (pending),	will be added to elaborate on these
		listed waste issues were resolved." and	statements. The 200-UR-1 DQO
		☐ "Sampling and analytical requirements or specific	document (WMP-19920) will be issued
		analytes needed to support designation activities	to incorporate changes that may be
		were identified and the requirements noted in	needed following resolution of
		WMP-19920."	comments pertaining to the SAP. Please
		Ecology has not reviewed or approved of WMP-19920. It	note that a current draft of the DQO was
		is impossible for Ecology to determine if waste is being	provided to Ecology on CD during
		managed in accordance with ARARs.	Ecology's review of the Draft A Work
			Plan.
129.	Page 6-5	Revise the text to read: "based on radiological field	Comment Accepted.
	Section 6.2.5	screening and COC sampling results; documenting the	
	· .	extent of contaminated soils removed from the site and	
		disposed of at ERDF; documentation of the verification	
	•	radiological survey and COC sampling results: and"	
130.	Page 6-5	Ecology has not reviewed an official released DQO and	Comment Accepted. The 200-UR-1
	Section 6.2.5.1	can not determine if the "analytical quality criteria	DQO document (WMP-19920) will be
		outlined in the DQO" comply with ARARs. Provide	issued to incorporate changes that may
		additional explanation.	be needed following resolution of
			comments pertaining to the SAP.
131.	Page 6-5	Revise text to read: "or risk-based levels if exposure	Comment Accepted.
- 10 - 12	Section 6.2.5.1	data are available regulatory standards are not available	
		and existing process knowledge"	

Comment	Page	Comment	Response
Number			
132.	Page 6-6	Revise the 3 <sup>rd</sup> and 4 <sup>th</sup> bullets to read:	Comment Accepted with Modifications.
. *	Section 6.2.5.2	☐ "A site map showing the grid for the initial and	The 3 <sup>rd</sup> and 4 <sup>th</sup> bullet statements will be
•		verification radiological COC survey and the	revised to differentiate between field
		surface contamination delineated during the initial	screening activities for COCs (mainly
		radiological COC survey"	radiological surveys, but includes other
	•	A discussion of removal action including hot-spot	techniques if nonradiological COC could
		sampling, excavation, field screening the excavation	be present) and final verification
	• .	surfaces for continued presence of radiological COC	radiological surveys and sampling and
		contamination, soil screening, verification radiological	analysis for COCs.
		surveys and COC sampling results, waste	
		characterization, management and disposition, excavation	
		backfill, compaction, and final grading".	
133.	Page 6-6	Suggest changing the title of this Section to "Remedial	Comment Accepted With Modifications.
	Section 6.2.6	Investigation Report for BC Cribs Area" (and add	The RI report is for the BC Controlled
		Westlake site if reclassified into this operable unit).	Area (200-UR-1 OU waste site number
			UPR-200-E-83), not the BC Cribs Area.
			West Lake will also be added to the title.
134.	Page 6-6	Revise text to read: "and concentration of	Comment Accepted.
	Section 6.2.6	contaminants based on sampling results; evaluating the	
		concentration of COCs against regulatory limits,	
		assessing contaminant fate and transport;"	
135.	Page 6-7	Revise the text to read: "by using a simple comparison	Comment Accepted With Modifications.
	Section 6.2.6.2	of an the mean as estimated from the 95% upper	This statement will be added in addition
		confidence limit bound of the data to background	to comparison of the maximum detected
		concentrations, PQLs, and with appropriate cleanup	value to background. This would be the
		levels."	most conservative approach.
136.	Page 6-7	Revise text to read: "against regulatory standards or	Comment Accepted.
	Section 6.2.6.2	risk-based levels if exposure data are available regulatory	
		standards are not available and existing process	
		knowledge"	

Comment Number	Page	Comment	Response
137.	Page 6-9 Section 6.2.6.3.1	Revise text to read: "Risks initially will be evaluated by comparison to risk-based standards such as WAC 173-	Comment Accepted With Modifications. Additional text will be added to
	5000001 0.2.0.3.1	340-745740, "Unrestricted Land Use Soil Cleanup	differentiate the risk-based standards for
		Standards for Industrial Properties."	the portion of the BC Controlled Area located inside the core zone from the
			portion of the site located outside the core zone.
138.	Dans 6 0	Revise text to read: "Additional analysis will be	Comment Accepted With Modifications.
138.	Page 6-9		Text will be revised to indicate that
	Section 6.2.6.3.1	performed using WAC 173-340-747(3) or (4), or an	
		appropriate alternate fate and transport model (e.g.,	additional analyses will be performed
		STOMP [PNNL-11216, STOMP – Subsurface Transport	that will meet potential ARARs when
		Over Multiple Phase: Application Guide]) will be	assessing the impact to groundwater.
•	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	established in accordance with WAC 173-340-747(8) to	
		assess impact to the groundwater"	
139.	Page 6-10	Ecology has not reviewed the most recent versions of	Comment Accepted With Modifications.
	Section 6.2.6.3.2	DOE/RL-2001-54 and can not determine if the	Text will be revised to indicate that the
		"screening-level ecological risk assessment" is in	ecological risk evaluation will be
		compliance with ARARs. However, the ecological risk	compliant with potential ARARs.
		assessment will need to comply with requirements	
		provided in WAC 173-340-7490 "Terrestrial Ecological	
		Evaluation Process." Please revise text accordingly.	
140.	Page 6-10	In the first bullet, include "inhalation" as an exposure	See response to comment 89.
1.0.	Section 6.2.6.3.2	pathway for invertebrates and burrowing mammals.	
141.	Page 6-10	The text states that "A risk management decision will be	Comment Accepted. Additional text
141.	Section 6.2.6.3.2	needed to determine how contaminants that do not have	will be added for clarification.
	5000001 0.2.0.3.2	toxicity values will be handled during the risk assessment	Will be added for clarification.
		for each OU." Please insert text to clarify who will make	
		that decision and when.	
1 40	Daga 6 12		Comment Assented With Medifications
142.	Page 6-12	The Ecological risk needs to be evaluated against WAC	Comment Accepted With Modifications.
	Section 6.2.6.3.2	173-340 requirements as well as the eight-step EPA	Text will be modified to state ecological
		process. Please include this evaluation in the text.	risk will be evaluated using the EPA
			eight-step Ecological Risk Assessment

	Page	Comment	Response
Number			
	-		guidance and potential ARARs.
143. I	Page 6-12	The statement "Because most of the waste sites in this	Comment Accepted. Additional text
5	Section 6.2.6.3.2	OU are within the core zone, generally only terrestrial	will be added for clarification.
	No. of the Control of	wildlife risks will need to be evaluated" is	
		misleading. Numerous waste sites in this OU are in the	
1		core zone, but the BC Control Area encompasses a huge	
		amount of land that is outside the core zone and is NOT	
	·	considered industrial-exclusive land use. Please revise	
	· .	the text to include evaluation of waste sites within the	
		core zone and waste sites outside the core zone.	
144. I	Page 6-13	This section reiterates the steps and remedial action	Comment Accepted With Modifications
	Section 6.3	alternatives for the FS process, as taken from Appendix D	Additional elements of the 200-UR-1 F
		of DOE/RL-98-28. The document DOE/RL-98-28 was	not identified in DOE/RL-98-28
		based on information and technologies available in 1997.	Appendix D will be indicated.
		A supplemental evaluation of technological developments	
·	1	should be provided in the forthcoming 200-UR-1 FS.	
		Add text to section 6.3 indicating that the forthcoming FS	
		will include information to update Appendix D in	
		DOE/RL-98-28. Specifically:	
		☐ Identify potential technologies and process options	
		associated with each GRA	
		☐ Screen process options to select a representative	
		process for each type of technology based on their	
		effectiveness, implementability, and cost	
		Assemble viable technologies or process options into	
		alternatives representing a range or treatment and	
		containment plus a no- action alternative.	
145.	Page 6-15	The last paragraph of section 6.4 "Three alternatives to	Comment Accepted.
	Section 6.4	the OU-by-OU remediation" and the next three	Commont 1 tocoptou.
<b>'</b>	Scululi 0.4	sections (6.4.1, 6.4.2, and 6.4.3) do not add any value to	
	4 · .	this section. Ecology suggests deleting this text.	

Comment Number	Page	Comment	Response
146.	Page 6-16	The text "Additional guidance for confirmatory and	Comment Accepted With Modifications.
	Section 6.5	verification sampling is provided in Section 6.2 of the	The incorrectly referenced sections of
		Implementation Plan (DOE/RL-98-28)" should be	DOE/RL-98-28 will be changed to 6.2.3
		deleted. The guidance in Section 6.2 of the	and 6.2.4.
		Implementation Plan is for characterization sampling,	
		instead use WAC 173-340-740(7) "Compliance	
		Monitoring."	
147.	Page 7-2	The Project Schedule doe not include any schedule for the	The schedule for remediation of
	Figure 7-1	RTD sites. Please include work covered by the proposed	candidate RTD sites will be negotiated
		action memorandum.	between RL and Ecology. This schedule
			is "To Be Determined" and will not be
			included in this work plan.
148.	Page a-1	Add a column indicating the remedy for the waste site	Comment Accepted With Modifications.
	Appendix A	(e.g., rejected, MNA, RTD, RI/FS, Reassignment).	Table A-11 will continue to be used to
	Table A-1		list sites and provide general
e San			information. A new table will be
			prepared summarizing proposed actions
			and remedies as they currently apply to
			each 200-UR-1 waste site.
149.	Table A-2	Sites rejected or no action: Please update list to include	Comment Accepted.
		areas that were actually reclassified. If including these	
		areas, please provide the official rationale comment that is	
		included in the letter that ecology has signed.	
150.	Page A-77	In site sorting information, there is a typo "980" instead	Comment Accepted.
	Table A-4	of "1980".	
151.	Page B-3	Modify the first sentence of this paragraph as follows:	Comment Accepted With Modifications.
	Section B.1.4.1	"The chemical and radionuclide contaminants from	Text will be modified to be consistent
	1 <sup>st</sup> paragraph of	UPRswithin 4.6 m (15 ft) of the ground surface and are	with other statements in the document
	section	not considered a threat to groundwater."	after revisions have been made to
			address consideration of the
			groundwater pathway.

Comment	Page	Comment	Response
Number			
152.	Page B-5 Section B1.5.3	Please modify the 1 <sup>st</sup> sentence of the section as follows: "According to the guidance in Table 6-5 are not significant because of the combination of low severity and continued accessibility of the sites"	Comment Accepted With Modifications. Text will be restated as "combination of low to moderate severity and"
153.	Page B-5 Section B1.5.4 1 <sup>st</sup> paragraph	Either here or in section 4.2.1 add details about the sampling plans for "no action" sites. Include the sample design for non-radioactive COCs. The MARSSIM approach (section 4.2) planned for the rad COCs would be acceptable.	Comment Accepted With Modifications. Sampling specifications for "no action" decisions are provided in Section B3.7. Chemical screening techniques for non-radioactive COCs are discussed in section B3.6.2. Additional text will be added in Section 4.2 addressing "no action" sites.
154.	Page B-14 Section B2.7.1	In this section reference the section of this document that gives the sample design to be used for nonradioactive contaminants and radionuclides.	This section discusses quality control measures used when identifying sample locations. Sample design specifications are presented in Section B3.0.
155.	Page B-18 Section B3.1.1.2 2 <sup>nd</sup> paragraph	This paragraph is highly speculative and unsupported; it is not useful. Delete this paragraph.	This section presents the Conceptual Site Model and the assumed site conditions. The discussion provides the assumptions made concerning the vertical contaminant distribution. It describes the site conditions that were considered during development of the sampling design.
156.	Page B-20 Section B3.4 1 <sup>st</sup> sentence of paragraph	Insert a new sentence after the first sentence: "Contaminated soils are not expected to exceed 2 m (6.6 ft) in depth for the sites associated with the 200-UR-1 moderate scale spill/leak CSM (Figure B-17). If field observations or measurements, or analytical data indicate a depth of contamination greater than 2 m, a site would be sampled in accordance with the larger scale spill/leak site CSM (Figure B-18)."	Comment Accepted With Modifications. The sampling design for moderate scale leak/spill sites and larger scale spill/leak sites is the same, as indicated in Section B3.5.1. A callout for Figure B-18 will be included in Section B3.5.

Comment Number	Page	Comment	Response
157.	Page B-21 and B-	Provide in both of these sections the sample design that	Comment Accepted With Modifications,
	22	will be used for nonradioactive contaminants, or provide a	The third bullet in Section 3.6 on page
	Section B3.5 and	reference to the proper section of the document.	B-21 will be revised to include
	B3.6.1.1		nonradiological field screening (as
			appropriate). The bullet at the top of
			page B-22 indicates that verification
			analysis for chemical COCs will be
			performed at RTD sites where a liquid
			release reportedly occurred.
158.	Page B-25	Correct "Figure B-18" to "Figure B-19" in the 5 <sup>th</sup>	Comment Accepted.
	Section B3.9	sentence.	
159.	Page B-26 to B-27	Add an explanation of how the number of survey and	Comment Accepted. Additional text
	Section B3.14	sampling locations were determined, and explain how the	will be added to discuss these items.
	general	sampling design follows guidance from MARSSIM, or a	
		similarly recognized document, for the type of survey and	
		type of contamination.	
160.	Page B-28	Provide in this section a statement about the sample	DOE RL is researching historical
`	Section B3.14.2	design for non-radioactive contaminants. Depths of	analytical results for samples collected
		greater than 1 foot for sampling are probably required.	in the BC Control Area and the BC
			Cribs and Trenches to determine if data
			exists for non-radionuclides. Sampling
			and analytical requirements presented in
			Appendix B for the BC Controlled Area
			will be modified as needed following the
•.			evaluation of the existing non-
			radioactive analytical data. Based on the
			outcome of the historical data review,
			further discussion concerning the
			requirement to collect non-radiological
			data will need to be conducted with
			Ecology. Historical radiological
			characterization results indicate that the

Comment	Page	Comment	Response
Number			
			majority of contamination occurs within the upper 6 inches of the soil in the BC
			Controlled Area. An additional sampling interval from 1.0-1.5 ft. will be
			included at selected locations identified
			with the highest radiological activity to
	· · · · · · · · · · · · · · · · · · ·		further assess vertical contaminant
			distribution.
161	Daga D 50	Change the arrow from the box "Verify presence or	Comment Accepted.
161.	Page B-59	absence of "to point directly to the box "Stake site	Comment Accepted.
	Figure B-19		
162.	Page B-59	boundaries to encompass potentially contaminated area".  From the box "Conduct screening of excavated material	Comment Accepted
102.	, –	to determine if radiologically contaminated", add labels	Comment Accepted
	Figure B-19	on the area to say "removed material" and "remaining	
		material", to clarify the different directions from that box.	
163.	Page B-59	Insert a box that explains that samples will be collected to	Comment Accepted With Modifications.
105.	Figure B-19	test for non-radioactive contaminants. This box should be	Additional text will be added to indicate
	Tigulo D-19	added on the right of the diagram after the "No" arrow,	field screening for radiological and non-
		after the box "Any radiological survey readings above	radiological constituents will be
		background?" Only if there are no nonradioactive and no	performed at liquid release sites.
		radioactive contaminants above regulatory levels should	Samples for laboratory analysis will be
		the documentation be submitted for regulatory	collected for verification of removal
		concurrence.	completeness or confirmation that no
			action is required. Liquid release sites
			will be analyzed for radiological and
			non-radiological COCs.
164.	Page B-61	The first box has a bullet for "IH survey". Add IH to the	Comment Accepted
	Figure B-21	list of acronyms in the front of the document.	•
165.	Page B-68 to B-69	The chromium (VI) soil cleanup level for direct contact is	Available equations and parameters in
1	Table B-5	set by the inhalation pathway because Cr (VI) is	the WAC are insufficient to calculate the
		carcinogenic via inhalation. Use 2 mg/kg as a soil	soil cleanup level protective of the air
		cleanup level, which applies to the inhalation pathway	pathway for Ecological receptors.

Comment	Page	Comment	Response
Number			
		and accounts for dust resuspension.	Clarification is needed from Ecology concerning the basis for the 2 mg/kg
			cleanup level and the receptors and
			conditions considered for its application.
166.	Page B-68 to B-69	There is a limit on the PRG for lead for the industrial	Comment Accepted
N	Table B-5	scenario. Please correct table B-5: No-limit 1000 mg/kg.	
	. '	This is the Method A value.	
167.	Page B-68 to B-69	The following contaminants have industrial direct contact	Comment Accepted in Part. Please note
	Table B-5	PRGs given as "No limit". Replace the "No limit"s with	that for methyl ethyl ketone, and
		the following values: methyl ethyl ketone, 2.1E06 mg/kg;	Trichloroethane, the quoted values are
		phenol, 2E05 mg/kg (considers dermal absorption); 1,1,1	greater in concentration than pure
		trichloroethane, 3.15E06 mg/kg.	product. Therefore, the "No limit"
			designation is correct. The quoted
			phenol value will be inserted as
			requested. However, it should also be
			noted that the phenol value represents
			80% of the pure product concentration,
			which is why "No limit" was used.
168.	Page B-68 to B-69	The PRG for residential direct contact for phenol is	The standard Method B calculations are
	Table B-5	1.67E04 mg/kg; this value accounts for dermal	being used and do not require
		absorption. Replace the 24,000 mg/kg with 1.67E04	consideration of dermal absorption.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mg/kg.	
169.	Page B-68 to B-69	List the PRGs for each PAH of interest and for each	No specific PAH compounds or
	Table B-5	pesticide of interest.	pesticides have been identified as PRGs.
			Based on analytical results for PAHs
			(Method 8310) and pesticides (Method
			8081), PRGs will be identified and
			DOE/FH will seek concurrence with
			Ecology on their use.
170.	Page B-68 to B-69	The PRGs for soil for the protection of groundwater,	See response to comment 42. This
	Table B-5	using default values for variables, are as follows in units	section will be changed as needed to be
	Page B-71 to B-78	of mg/kg: antimony 5.4; arsenic 2.92; barium 923;	consistent with the rest of the document

Comment Number	Page	Comment	Response
	Table B-7	beryllium 63.2; cadmium 0.69; chromium (III) 2000;	concerning the groundwater pathway.
		copper 0.8; lead 3000; mercury 2.1; molybdenum 32.3;	
		nickel 130; silver 5.2; selenium 13.6; thallium 1.59;	
•		vanadium 2.24E03; zinc 5.97E03; nitrate-N/nitrite-N 40;	
		cyanide 0.8; acetone 3.2; acetonitrile 0.282; benzene	
		0.028; benzyl alcohol 19.2; bromodichloromethane	
	,	3.68E-03; butanol 6.62; carbon tetrachloride 3.1E-03;	
		chlorobenzene 0.87; dichloroethylene 0.36; 1,1-	
		dichloroethane 4.37; 1,2-dichloroethane 2.32E-03; 1,1	
1	•	dichloroethylene 5.22E-04; dichloromethane 0.022; p-	
		dichlorobenzene 0.03; ethyl benzene 6.05; ethyl ether	<u></u>
		9.09; hexane 96.2; MIBK 310; methyl ethyl ketone 21.8;	
		tetrachloroethene 9.1E-03; phenol 44; toluene 7.3; 1,1,1-	
		trichloroethane 1.58; 1,1,2-trichloroethane 4.27E-03;	
		trichloroethylene 0.026; vinyl chloride 1.84E-04; xylenes	
		9.14; TPH 30; PCBs 0.21.	
		Unless proper justification can be added to use other	
		values for groundwater protection, add these values to	
		tables B-5 and B-7.	:
171.	Page B-68 to B-69	Because the contamination in the BC control area came	An evaluation of sampling and
	Table B-5	from the BC cribs the COC list for BC cribs should be	analytical data associated with the BC
	Page B-71 to B-78	used to complete the COC list for the BC control area.	cribs and trenches is being conducted to
	Table B-7	Isophorone, pentachlorophenol, and styrene are on the	determine if other COCs should be
		COC list for BC cribs. Add them to Table B-5 and B-7.	added to Tables B-5 and B-7.
172.	Page B-68 to B-69	Provide the rationale that allowed qualification for a	Comment Accepted. Additional text
	Table B-5	simplified terrestrial ecological evaluation according to	will be added.
		WAC 173-340 Table 749-1. Add a footnote in the table to	
		tell the reader where to find this information in the	
		document.	
173.	Page B-68 to B-69	The molybdenum concentration for a simplified terrestrial	Comment Accepted.
- · <del>- ·</del>	Table B-5	ecological evaluation at industrial sites is 71 mg/kg.	- Committee to Copical
r.		Please insert this in Table B-5 if these sites qualify for a	

Comment Number	Page	Comment	Response
Tumber		simplified evaluation.	
174.	Page B-68 to B-69 Table B-5	After correcting this table with proper values and pathways, indicate in the table, using shading or any other	Comment Accepted.
	Tuote B 5	suitable notation, the PRG that dictates cleanup for each contaminant. This will be the lowest value in each row of the table, or background.	
175.	Page B-71 to B-78	Cyclohexanone is not on the list of compounds for	Cyclohexanone is analyzed using
	Table B-7	method 8260. Please check to see that the correct method is provided on Table B-7 for cyclohexanone.	method 8270.
176.	Page B-79	Ecology requests that you use plastic as a sample	Comment Accepted.
	Table B-8	container for Cr (VI). Hexavalent chromium can adsorb to glass containers.	
177.	Page B-81 to B-82	Use of field instrumentation for non-radioactive	Comment Accepted. Soil samples will
	Table B-11	contaminants is encouraged when detection limits are	be collected for laboratory analysis
		adequate, but for many contaminants these methods	using EPA methods for verification of
		cannot detect contaminants at the cleanup levels for	the remedial response. Field screening
		protection of groundwater. Physical samples of soil will	instrumentation and analyses are used
	. :	be needed for verification to address contaminants with	for in-process characterization, such as
		cleanup levels below the detection limits of the field instruments.	during the removal process.
178.	Page B-83 to B-87	The sampling scheme is too sparse for making decisions	Large sites are the result of
	Table B-13, B-14,	about cleanup. For instance, two samples are way too	dissemination of a thin interval of
	B-15	few to represent areas as large as 500 m <sup>2</sup> . Soil variability	radiologically contaminated material,
		generally increases with area. Contaminant concentration	such as windblown particulates,
	·	variability should be used as a basis for choosing	tumbleweed parts, and/pr animal feces.
		sampling densities – the software package Visual Sample	Once this contaminated interval has been
		Plan should be used to determine the number of samples	scraped off the site, a layer of native soil
		needed for verification.	should be exposed at background
			concentrations. Thorough coverage of
			the site surface will be accomplished
			through a radiological walkover survey.  For the instance cited, two representative

Comment Number	Page	Comment	Response
			samples, that consist of 4 sub samples for each (a total of 8 sub samples), will
		·	be taken from throughout site. This
			sampling data along with the final
			radiological survey data will be
			sufficient to verify completeness of the
			removal.
179.	Page B-81	Add to this table the physical samples that will be taken in	See response to comment 160.
	Table B-16	the BC Control Area to test for hazardous metals and	· · ·
	-	PCBs. If radionuclides were dispersed by animal	
		droppings in the BC Control area, metals from the BC	
		cribs would accompany those radionuclides. Physical	
		samples from the BC Control Area must be taken to	.*
		demonstrate that there are no hazardous metals dispersed	
		in the area.	
180.	Page C-16	Please add sufficient detail to the description of the cost	Comment Accepted. Costs will be re-
	Table C-4	estimating assumptions to explain the apparent	evaluated and the text will be revised as
		discrepancies in unit costs between different sites. For	appropriate.
		example, the level of detail in the "C3.1 Trench	
		Template" is insufficient for the reviewer to understand	
		the difference in ERDF Disposal Costs in Table C-4. For	
	,	example, the difference in ERDF disposal cost for Sites	
	·	200-E-29 and 200-E-53 is >50%, the difference between	
		\$3.79 per cubic foot disposed and \$2.37 per cubic foot	
		disposed.	
181.	Appendix D	Revise the text to read: "In general, this CERCLA	Comment Accepted.
		permitting exemption will be extended to all response	
		action activities conducted at the 200-UR-1 OU waste	
		sites, with the exception of the Resource Conservation	
		and Recovery Act of 17-976 units, which will be	
		incorporated into WA7890008967m Hanford-Facility	
		RCRA Permit." Ecology was not able to identify any	

Comment	Page	Comment	Response
Number			
		RCRA TSDs assigned to the 200-UR-1 OU.	7
182.	Page D-3	Revise the text to read: "specifically associated with	Updates and/or changes to Table D-2 are
	Appendix D	developing risk-based concentrations for cleanup (WAC	being evaluated and will be discussed
	Section D1.2	173-340-740, "Unrestricted land use soil cleanup	with Ecology.
	,	standards," WAC 173-340-745, "Soil Cleanup Standards	
		for Industrial Properties," and WAC 173-340-747	
	•	"Deriving soil concentrations for ground water	
		protection")." Update Table D-2 accordingly.	
183.	Appendix D, Table	Chapter 4 "Potential Applicable or Relevant and	Updates and/or changes to Table D-2 are
	D-2	Appropriate Requirements" of DOE/RL-98-28 lists	being evaluated and will be discussed
		multiple ARARs that should be include in Table D-2.	with Ecology.
		Please re-evaluate potential ARARs and update Table D-	
		2.	